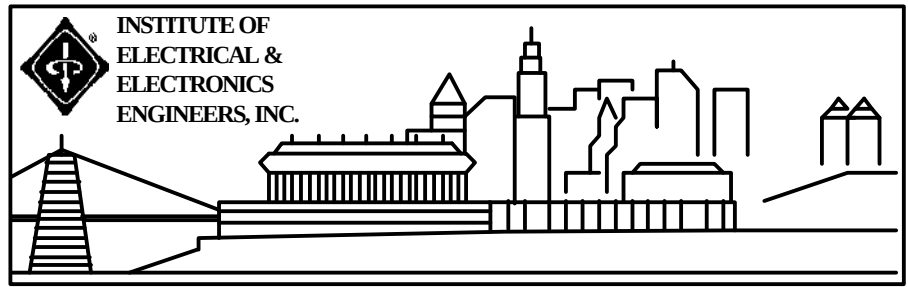


**IEEE CINCINNATI
SECTION
NEWSLETTER
NOVEMBER /
DECEMBER 2000**



**DECEMBER MEETING
VINOKLET WINERY**

DATE : Thursday, December 7, 2000

PLACE : Vinoklet Winery, 11069 Colerain Avenue

TIME : 5:30 p.m. - Arrival
6:00 p.m. - Dinner
7:00 p.m. - Program

ABOUT VINOKLET: Perched on top of picturesque rolling hills, Vinoklet provides a panoramic view of the acres of surrounding vineyards and lakes. IEEE will dine in the loft, and enjoy the view, which will be enhanced by a full moon and outdoor lighting. Spouses and guests are welcome!

VINOKLET WINERY MENU:

Dinner consists of: - A choice of entrée (per person):
New York Strip Steak
Boneless Skinless Breast of Chicken
Icelandic Cod Fillet
(Above are Grill-Your-Own-to-Perfection at the Winery Grill!)

- Buffet:
Vegetables of the Day, Baked Potato, Tossed House Salad,
Bread and Dessert.
One Carafe of Vinoklet Wine (per person).

Cost is \$23.50 per person + gratuity

The owner of Vinoklet, Kreso Mikulic, is an engineer and holder of several patents. He collects electrical measurement devices, and has a portion of his collection on display in the Loft dining area. Mr. Mikulic will talk about the meters, his patents, and interesting aspects of his professional career.

DIRECTIONS: Vinoklet Winery is located at 11069 Colerain Avenue, two miles north of I-275. (Phone 513-385-9309). From I-275 take the Colerain exit (#33), and go north about one-half mile. Turn left at the traffic light having Struble Road on the right, and Colerain Ave. to the left. Vinoklet will be on the left side of Colerain about one and one-half miles further.

RESERVATIONS: Please phone your reservation to the IEEE voicemail, 513-629-9380, before noon, Tuesday December 5, 2000. Record your Name, member number, daytime phone number, and number of persons in your party, if more than one.

IMPORTANT NOTICE REGARDING THIS NEWSLETTER

Due to increasing publication costs and decreasing revenue from various sources (including the ISA/IEEE show), the IEEE Cincinnati Section needs to reduce our expenses in order to ensure the viability of the Section. Beginning in January 2001, this newsletter will only be available via the Section's web page at <http://ieee.cincinnati.fuse.net/> or by e-mail unless you contact us. After January, depending on the response, the content of the newsletter may be reduced to only a notice of upcoming Section meetings and a summary of the remaining articles. The full articles would be available on the web page or via e-mail.

In order to continue receiving the hard copy of the newsletter, you must either call the Section's voice mail at 513-629-9380, or contact Bob Morrison (Editor) at 513-287-3697 or by e-mail at j.r.morrison@ieee.org. Provide your name and member number. In case there are questions, please include a daytime telephone number as well.

To subscribe to the electronic version, contact Bob Morrison.

CHAIR'S MESSAGE

by Ron Harbaugh, Section Chair

October has been a busy month for the Cincinnati Section. Your PACE chair and Section Chair attended the Region 2 meeting in Pittsburgh, the senior member drive, and the Section meeting at the Cincinnati Museum Center. The Region 2 meeting gave us a chance to review Section issues and discuss some ideas for better programs for the IEEE Sections. Our Senior member drive brought a small number of upgraded members in the section. There will be additional information about these meetings in later newsletters.

The Section meeting was held in Cincinnati Museum Center on October 26. The subject was project management as applied to the Fort Washington Way highway replacement. Don Gindling and his colleagues provided a very interesting program. It looks like a few lessons can be learned from their experiences. You can see some of the information on WWW.FWW2000.com. Cincinow.com also has some information.

Which reminds me, everyone stay tuned in the IEEE website for updates on the Section activities and other goings-on nationally.

Since these little tidbits are written a long time before the events, it seems strange wishing everyone Happy Holidays before I get through Halloween. Here it is anyway. Have a Good Thanksgiving, a Merry Christmas, and a Happy New Year.

UPCOMING SECTION MEETINGS AND TOPICS

January 25, 2001	Section Meeting - Electric Industry Deregulation
February 2001	Section Meeting - ESC Banquet
March 27, 2001	Section Meeting - DSL
April 26, 2001	Section Meeting - PACE
May 2001	Section Meeting - Harris HDTV Tour
Sept. 2001	Section Meeting - Tour of Kings Island

Topics are tentative at this time. Detailed information about the Section Meetings will be included in that month's newsletter. If you are interested in attending an Executive Committee Meeting, please contact either

Ron Harbaugh (513-352-2941, Ron.Harbaugh@CinPD.RCC.ORG) or Jack Beckmeyer (513-353-3834, j.beckmeyer@ieee.org).

IEEE 2001 CINCINNATI SECTION BALLOT
Election of Officers for Term
Beginning 1/1/01 and Ending 12/31/02

CHAIRMAN

☐ Tom Grau ☐ Write - In_____

VICE - CHAIRMAN

☐ Laurie Tappel ☐ Write - In_____

SECRETARY

☐ Allison Santoro ☐ Write - In_____

TREASURER

☐ Orest Melnyk ☐ Write - In_____

MEMBER - AT - LARGE

☐ Steve Olenick ☐ Write - In_____

Please vote for only one candidate in each office. Resumes of each candidate can be found on the back of this page of the newsletter. Please return the ballot by:

JANUARY 1, 2001

Return the complete ballot to Bob Morrison (Newsletter Editor) at j.r.morrison@ieee.org or via regular mail to:

J. R. Morrison
4472 Oakville Dr.
Cincinnati, Ohio 45211

RESUMES OF CANDIDATES

THOMAS G. GRAU - Ohio Wesleyan, 1960 (BA-Physics and Mathematics); Ohio State, 1962 (MS-Physics); Joined Bell Telephone Laboratories in 1960 where he designed wire-spring relays, sealed-contact relays and separable connectors until 1983. Responsible for various energy systems designs including emergency stand-by power, dc rectifiers, off-line switching rectifiers and microprocessor controlled battery plants. Additional assignments include design and development responsibility for the DSP 3, Parallel Processing System, Power Feed Equipment for Submarine Cable Systems, and Military Power Applications. Technical Manager of the Signal and Information Processing Department that develops processing requirements and solutions for a number of military and commercial platforms until his retirement in 1995. Following his retirement and to the present he has been working as a consultant in the engineering field of software quality control. He holds ten patents and has published several papers.

Mr. Grau is a Senior Member of IEEE and has served on the AdCom of CPMT Society as Technical Vice President and as an elected AdCom member of the Power Electronics Society (Charter Member). Conference Chairman for the 1983 Electronic Components Conference (now called the Electronic Component Technical Conference).

LAURIE TAPPEL - BSEE University of Dayton, 1984; MBA-Finance University of Cincinnati, 1989: Employed by Cincinnati Bell Telephone as an Advanced Service Developer, creating custom routing solutions for clients using the AIN (Advanced Intelligent Network) platform. Started at CBT in 1986 and has worked in various departments including Outside Plant and Network Planning. Began her engineering career at Harris Government Systems in Melbourne, Florida where she developed Satellite Modems.

ALLISON SANTORO - BSEET, University of Cincinnati, 2000. Currently employed with International Business Machines Corporation (IBM) as an I/T Professional. She is part of the enterprise application development team that assists clients in solution construction, implementation and systems integration in a technology, industry, or business and delivery of high quality solutions to clients in response to varying business requirements. Past student branch president and vice president.

OREST MELNYK - BSEE, University of Cincinnati 1980 and MBA, University of Cincinnati 1985. Currently the Director of Financial Analysis and Planning for Broadwing, Inc. Past industry experience includes telecom engineering, marketing, sales, and corporate planning. IEEE involvement includes IEEE Student-Chairman while at U.C. and the offices of ESC Board Member, Chairman, Vice-Chairman, Member-at-large, and Treasurer (Incumbent) for the Cincinnati Section. Has also been involved in the joint ISA & IEEE committee responsible for the ISA/IEEE Show also known as the Electronics and Instrumentation Conference and Exhibit. for the past ten years.

STEVE OLENICK - Director of Programs at Nova Engineering, a 100% employee owned small business. specializing in wireless communications for both military and commercial customers. Currently pursuing an MBA at the University of Cincinnati. Previously received a BSEE from Youngstown State University, 1972; an MSEE from Fairleigh Dickinson University, 1976; and graduate course work at NJIT. Previous positions included: Research and Development Manager, Cincinnati Electronics Corp.; Group Leader at CMC Electronics; New Business Manager, ITT Avionics; and a member of the technical staff for the US Army CECOM. Member of Armed Forces Communications and Electronics Association (AFCEA) and a Senior

Member of the IEEE; Organized Professional Development Seminars for the Fort Monmouth AFCEA Chapter; Published/Presented at MILCOM 86 and TCC 92; One Patent. He has held the positions of Chairman, Vice Chairman, Secretary and Member-at Large of the Executive Committee in the Cincinnati Section of IEEE in previous years.

NEW MEMBERS

The following individuals are IEEE members who are new to our Section:

PRADEEP A. BALARAMAN	KEVIN G. JONES	HEMANTH K. SAMPATH
FELIPE BERTRAND	BRUCE A. METZGER	JAMES M. SKORUPPA
DOUGLAS E. BOWYER	RAJESH RADHAKRISHNAN	KEITH A. VAN KERCKHOVE
RANDY L. BRADLEY	YELAMANCHILI V. RAO	RYAN T. WHETSTONE
DANIEL B. CONAWAY	BRADLEY D. REIGELSPERGER	XIAODONG YUE
JACK J. CRACHIOLO	CARL W. RILEY	
WILLIAM J. HIMMLER	CARL J. ROGERS	

We wish to extend our welcome to all of our Section's new members!!!

ATTENTION Seniors and Retirees ! CHECK on RESC Activities !

The Retired Engineers and Scientists of Cincinnati - RESC for short - invite those who would like to share good fellowship while pursuing interests in technical, community, nostalgia, travel and business or industry developments. Activities include monthly luncheon meetings, periodic plant tours, and golf in season. For example; October events included an OKI Transportation Staff presentation on "Plans for Light Rail along the I-71 Corridor", a tour of the "state of the art" high speed printing presses at Dayton Daily News, and golf rounds.

Luncheon meetings are held on the third Tuesday of each month from October through May, usually on the lower level the Unity Center, 1401 McMillen Ave at Grandview Ave., just east of the former Engineering Society building. **RESERVATIONS** and **INFORMATION** are available by calling RESC contacts at either (513) 231-7831 or (513) 751-8035

UPCOMING EVENTS include:

- **Wednesday Nov. 15, TOUR of CLUB CHEF** produce processing / packaging facility
- **Tuesday Nov. 21, Luncheon meeting program: "TWO WRITERS UNDER ONE ROOF"**
Bruce and Phyllis Martin, writers for multi-media -- books, magazines, video --on education, training, motivation, short stories, and mystery

TOPICS of luncheon meetings later on winter / spring schedule include:

- Digital Photography
- Technology in Archeology
- Lasers and Medicine
- River Boatin' - A Naturalist's View.

Enjoy these activities with this active group of about 200 members. Spouses are always welcome and special events such as the pre-holiday Luncheon and Entertainment at Forest View Gardens are planned especially for their enjoyment.

Scanning the Past: A History of Electrical Engineers from the Past

Submitted by Dick Reiman, Historian

Copyright 1991 IEEE Reprinted with permission from the IEEE publication, "Scanning the Past" which covers a reprint of an article appearing in the Proceedings of the IEEE Vol. 87, No. 1, January 1999

Some Reflections on an Electrodynamic Century

Viewed from the perspective of an observer who has lived through nearly seven decades of the twentieth century, the diversity and pervasiveness of electrical and electronics applications have been a source of continual astonishment. Electrical engineers, scientists, and inventors have served as principal agents of change and seem destined to remain so in the twenty-first century. In 1831, just a century before I was born, the eminent English electrical scientist Michael Faraday (Fig. 1) reported his discovery of electromagnetic induction and the great Scottish theorist James C. Maxwell was born. The Faraday phenomenon became a cornerstone of electromagnetic science and led to the invention of the electric dynamo and the transformer which became and still remain vital elements in systems for the generation and distribution of electric energy. Alexander G. Bell's (Fig. 2) telephone, introduced in the 1870's, was another major invention based on electromagnetic induction. Maxwell's famous synthesis, first published in the 1860's, was expressed succinctly in his electromagnetic field equations. His theory provided a satisfying interpretation of diverse phenomena including electromagnetic wave propagation and found an early technological expression in Guglielmo Marconi's wireless communication system in the 1890's.



Fig. 1. Michael Faraday photograph copied from a daguerreotype when he was 50 years of age. (From J. Tyndall, *Faraday as a Discoverer*. Appleton, NY, 1873.)



Fig. 2. Alexander G. Bell, the seventh president of the AIEE (1891-1892), as published in *the Transactions of the American Institute of Electrical Engineers*, vol. X, 1893, frontispiece.

The twentieth century has seen a steady development of several clusters of electrotechnology, most notably in the fields of power and control, communication, and computing. Electric energy with its remarkable flexibility has become ubiquitous in industry, transportation, and the home. Electric motors have become so prevalent in everyday life as to be taken for granted, except when they fail to operate properly. In the communications cluster, a sequence of systems has emerged beginning with wire telephony and followed by radio, television, radar, and wireless personal communication. The growth in these systems has been facilitated greatly by a dramatic extension of the boundaries of the useful electromagnetic spectrum by means of the broadband coaxial cable technology, microwave devices, and, more recently, optical fiber and lasers. The creation of

communications satellites and the explosive expansion of Internet usage are the latest chapters in the ongoing saga with social, cultural, and economic consequences which are still poorly understood.

The computing sector also has been altered at an almost incredible pace. During the first half of the century, the term computer commonly was applied to human specialists in computation or to analog machines used to solve differential equations. The last half century has brought on a new age based on digital and solid-state electronics with an accelerating change from a few large digital computers in the 1950's to the egalitarian personal computer of today. The microprocessor has already permeated almost every aspect of life in myriad applications including the control of home appliances and automobiles. The cumulative impact of the growth and convergence of these clusters appears far greater than anticipated by even the most sanguine forecasters during the early phases of development.

Thomas A. Edison (Fig. 3), whose contributions to the genesis of the electric power industry are well known, died in 1931, about five months after I was born and a century after Faraday's great discovery. The electric power, telephone, and radio industries (Fig. 4) were well established in 1931 and widely accessible, at least to urban residents. However, my early years were spent living on a small farm in the North Carolina mountains where we did not have electric lighting, a telephone, or a radio receiver. Our lighting was provided by a few kerosene lamps, and fuel for cooking and heating came from the oak trees which grew on our mountain. Water was piped into the house from a nearby spring. The arrival of a power line when I was about ten years old left an indelible impression, as did the mail-order radio which delivered the voice of Edward R. Murrow from England and music from Nashville. These early experiences stimulated my interest and curiosity about things electrical.



Fig. 3. Thomas A. Edison. (From *Camp Cooperation Book of Proceedings*. Associated Island Corporation, 1914.)

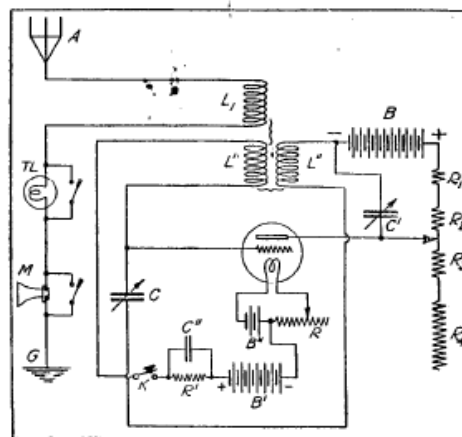
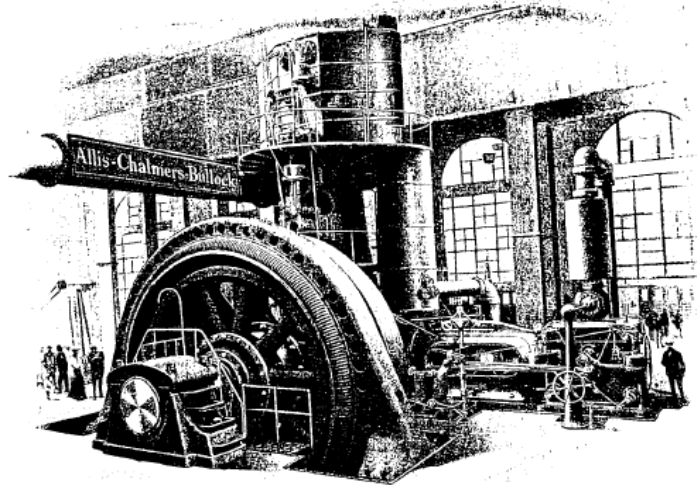


Fig. 4. Marconi Company radiophone transmitter. (From A. N. Goldsmith, *Radio Telephony*. New York: Wireless Press, 1918.)

Engineering students on the campus where I studied electrical engineering in the 1950's could readily be identified by the slide rule scabbards attached to their belts. In the June 1972 issue of the *Hewlett-Packard Journal*, I learned of the HP-35 described as a "nine-ounce battery powered scientific calculator, small enough to fit in a shirt pocket." The lead article predicted that before long, "that faithful 'slip stick' may find itself retired" since the new calculator "produces those answers more easily, more quickly, and much more accurately." The forecast was soon confirmed, although I still become rather nostalgic when I pick up the Keuffel and Esser log-log duplex vector slide rule that I carried as an undergraduate and continued to rely on for many years afterward. Stored in the basement of the building where I was a student engineer was an 1880's vintage Edison bipolar generator which, I believe, eventually was acquired by the Smithsonian Institution.

Much of the electrical engineering curriculum was devoted to direct-current and alternating-current machinery (Fig. 5). We also learned a great deal about vacuum tubes and associated circuitry. The transistor was treated only briefly in the last chapter of our advanced electronics textbook, and it seemed to pose little threat to the vacuum tubes. So far as I can remember, the only computer we encountered as undergraduates was a laboratory analog computer with its operational vacuum-tube amplifiers and plug-in components. We were encouraged to join a professional engineering society and I became a student member of both the American Institute of Electrical Engineers (AIEE) and the Institute of Radio Engineers (IRE) some years before the merger created the IEEE.

As a teacher of electrical engineering during the 1960's, I developed a strong interest in the historical roots of electrical science and engineering. Electrical history has been a central focus of my professional life since 1969. I joined the IEEE History Committee in 1973 and served on the Committee for more than two decades. I contributed a paper to the August 1978 issue of the PROCEEDINGS OF THE IEEE which attempted to summarize the current state of scholarship in electrical engineering history and discussed needs and opportunities for further work. I concluded that "despite some encouraging developments ... IEEE history remains a comparatively undeveloped frontier." About a year later, a new IEEE Center for the History of Electrical Engineering was established. It has evolved into a highly respected and productive institutional focal point for scholarship, education, and service to the EE profession on matters relating to electrical history.



5,000 H.P. ALLIS-CHALMERS ENGINE, DIRECT-CONNECTED TO GENERATOR
CARRIES 5,600 H.P. with 15 inches vacuum.
Machinery Hall, World's Fair, St. Louis

Fig. 5. View of a 5000 H.P. Allis-Chalmers Engine, which was direct-connected to a generator, at Machinery Hall, St. Louis Worlds Fair (1904). (From *Modern Engineering Practice*. Chicago: American School of Correspondence, 1906.)

During the past eight years, it has been my privilege to discuss the contributions of selected pioneers in electrical engineering in "Scanning the Past." Among the individuals included in the series were 36 who served as president of either the IRE or AIEE, 32 recipients of the Medal of Honor, and 19 recipients of the Edison Medal (there were a few who received more than one of these honors). The term "scanning" seems an especially felicitous metaphor for what I aspired to do when I began the series and it still seems appropriate. As I learned as a student in a military school on radar almost half a century ago, certain types of scanning apparatus were designed to collect data on the past behavior of, for example, an invisible flying object. The data might then be used to facilitate the prediction of future behavior of the object. We also learned that some echoes might be false, misleading, or obscured by noise. Both the radar operator and the historians need to draw on all their training, experience, and cultivated instincts in order to arrive at a judicious selection of the particular echoes likely to prove most illuminating in the analysis of trajectories.

For the next several months, this space is to be devoted to a series of retrospective articles concerning electrotechnology in the twentieth century written by members of the committee and staff of the IEEE History Center. As we approach the end of the "electrodynamic century," surfing the past may challenge scanning the past as a more evocative metaphor for a new generation of electrical historians. But, whatever the metaphoric choice, I anticipate that the editors of this PROCEEDINGS in the twenty-first century will continue in the tradition of all their antecedents and provide space for contributions concerning electrical history.

James E. Brittain
School of History, Technology, and Society
Georgia Institute of Technology

TRAVELING EXHIBITION, "BREAKING THROUGH: THE CREATIVE ENGINEER", IN CINCINNATI THIS FALL

The National Society of Black Engineers (NSBE) at the University of Cincinnati in conjunction with the Engineering Tribunal and Society of Women Engineers is currently sponsoring the traveling exhibition, "Breaking Through: The Creative Engineer." The exhibit will be in Cincinnati this fall for a twelve – week venue (October 1, 2000 – December 29, 2000). "The Creative Engineer" is sponsored by the Association of Science Technology Centers (ASTC) and explores how creativity is expressed in engineering through a series of eight case studies. The exhibit is an interactive, full-scale museum exhibition piece which includes puzzle stations, artifacts, and computer stations. The Cincinnati Museum Center has agreed to house the display during its Cincinnati venue.

The purpose of bringing the display to the University of Cincinnati is two - fold. First, the display will be used as a recruiting tool for both the College of Engineering. Second, the display will be used to inform the public of the many great accomplishments of engineers and to stimulate public interest in the field.

The NSBE is currently seeking input, which can enhance the quality of the exhibit. This is where IEEE and its membership can be of most help. The Museum Center is allowing the NSBE to host additional programs at Union Terminal that would support the exhibit. The NSBE would appreciate any ideas in the way of presentations, programs or guest speakers that are engineering and can be hosted at the Museum Center. Please direct all ideas to Mr. Scott Davis at 513-482-5325 (work), 513-556-7456 (home), or swdavis@messer.com.

The Creative Engineer is a unique and innovative exhibit and speaks to the more colorful side of a traditionally intimidating subject. Bringing the display to Cincinnati will create a better understanding of our highly technical field. The NSBE looks forward to working with you to accomplish this task. Please feel free to visit the exhibit web site at www.eweek.org/1999.nbm/index.html. If you have any questions or concerns, please do not hesitate Mr. Davis at the above mentioned phone numbers.

IEEE NEWS

MAKE AN IMPACT ON THE ENGINEERING PROFESSION

The 2001 IEEE membership renewals are in the mail! Like last year, you have the option of making voluntary contributions to various IEEE funds. As you fill out your renewal form, please consider making a contribution to the IEEE-USA General Fund. Last year, IEEE members generously gave nearly \$74K in voluntary contributions to the IEEE-USA General Fund at renewal time. Gifts to the IEEE-USA General Fund promote the electrotechnology careers of the IEEE's U.S. members by sustaining member services such as career development, employment assistance, consultants networks, and government fellowships. Gifts also support IEEE-USA's efforts to provide balanced, reliable information to the public on important career and public policy issues.

Please check your 2001 IEEE Membership Invoice for more details on making a gift to IEEE-USA. If you have any questions, contact the IEEE Development Office at +1 732 562 3915 or at <mailto:supportieee@ieee.org>. Please note that contributions to the IEEE should be paid in full at the time of the renewal and cannot be included in the installment renewal payment plan.

IEEE-USA SEEKS APPLICANTS FOR FCC, CONGRESSIONAL FELLOWSHIPS

IEEE-USA is seeking U.S. IEEE members interested in an Executive Fellowship at the Federal Communications Commission (FCC) (June-December 2002). The Fellow will help the FCC chart its course in the rapidly evolving areas of wireless and network technologies. Eligible candidates must be IEEE members and U.S. citizens and have a strong background in new and emerging telecommunications technologies as well as an interest in regulatory policy. Fellows may not be presently employed by or have a significant interest in companies regulated by the FCC. Fellows receive a stipend of \$50K from IEEE-USA.

IEEE-USA is also seeking U.S. IEEE members interested in spending a year (January-December 2002) in Washington as a Fellow working for a Member of Congress or congressional committee. Eligible candidates must be IEEE members and U.S. citizens, and have a minimum of 10 years professional experience, which may include graduate-level education. Fellows receive a stipend of \$35,000-\$50,000 depending on current salary, plus relocation assistance.

The deadline for receipt of applications for both the FCC and Congressional Fellowships is February 23, 2001. For more information and an application kit for the FCC and Congressional Fellowships, go to <http://www.ieeeusa.org/forum/govfel>, or contact Chris Brantley at <mailto:c.brantley@ieee.org>, or +1 202 785 0017, ext. 8347.

APPLICATIONS AVAILABLE FOR 2001 MASS MEDIA S&E FELLOWS PROGRAM

For a 10-week period during the summer, the AAAS Mass Media Science and Engineering Fellows Program places advanced college and university students in the natural and social sciences and engineering at radio stations, television stations, newspapers, and magazines throughout the country. The goal of the program is to strengthen the connections between science and the media. This past summer marks the first time that IEEE-USA has placed a Science and Engineering Fellow. Elan Ruskin, a junior at the University of Pennsylvania majoring in computer science engineering, spent 10 weeks at the ST. LOUIS (MO) POST DISPATCH covering environment, nature and

technology news. IEEE-USA is looking forward to continuing its participation in the Mass Media Science and Engineering Fellows Program in 2001. IEEE-USA will sponsor a U.S. IEEE member who is a Junior, Senior, or Graduate/Post-Graduate level student in the 2001 program. For more information, visit <http://www.ieeeusa.org/notable/mediafellow2001.htm>. The deadline for receipt of applications is January 15, 2001.

NATIONAL ENGINEERS WEEK ANNOUNCES BILLBOARD AD CAMPAIGN 2001

For its Fiftieth Anniversary Celebration, the National Engineers Week Committee will again take its message that "Engineers Turn Ideas into Reality" to the streets and the highways through its Outdoor Advertising Campaign. The goal of the program, which will be led by student and professional sections of engineering societies around the country, is to place a public service announcement extolling engineers on a minimum of 100 billboards, and 1000 public transit buses, during the month of February.

Building on the increased success of the program over the past four years, the campaign has a dual purpose: to increase grassroots involvement in National Engineers Week, particularly among undergraduate engineering students; and to make a broader audience aware of the week-long celebration and the technological achievements it honors.

PRESIDENT BUCKLEY OUTLINES FUTURE OF *TODAY'S ENGINEER*

In a letter to appear in the 4th Quarter 2000 issue of TODAY'S ENGINEER, IEEE-USA President Merrill W. Buckley, Jr. outlines for readers the future of the 3-year-old magazine. The quarterly, printed version of TODAY'S ENGINEER will be discontinued at the end of 2000 and replaced in 2001 by a monthly Web version, still entitled TODAY'S ENGINEER. Targeted to debut in March 2001, the Web version of the magazine will be available to every IEEE member as a member service. Each month, the "webzine" will offer two informative career-related feature articles on topics such as engineering performance; skills and competencies; product development practices; project management; innovation and entrepreneurship; and business practices. The new format will also include three rotating "departments" on such topics as engineering trends, project tips, and management briefs.

President Buckley and the volunteers and staff who worked so hard to make TODAY'S ENGINEER a publication of the highest quality, would like to thank its readers and supporters for making the magazine such a worthwhile endeavor. If you aren't familiar with TODAY'S ENGINEER, tune in to <http://www.todaysengineer.org> over the coming months for more details on the webzine. If you have questions, please write <mailto:todayengineer@ieee.org>.

AUTHORS SOUGHT FOR NEW IEEE-USA PUBLICATIONS

Beginning in March 2001, IEEE-USA will feature two monthly webzines, TODAY'S ENGINEER (as noted above) and POLICY PERSPECTIVES, as a free service to all IEEE members. In addition, IEEE-USA will be proud to offer all U.S. IEEE members a new print publication, IEEE-USA NEWS & VIEWS, which will combine the best elements of the POLICY PERSPECTIVES and TODAY'S ENGINEER webzines. You will receive this new quarterly "magapaper" with your IEEE SPECTRUM and THE INSTITUTE.

For the TODAY'S ENGINEER webzine, we are seeking career guidance and development articles, offering tips, strategies and solutions for all segments of the profession -- both young professionals and experienced engineers. The articles should be approximately 500 words in length. The articles can be on such topics as business practices, engineering skills and competencies, product development practices, project management, and innovation.

For the POLICY PERSPECTIVES webzine, we seek feature articles discussing an engineering career policy or technology policy issue. Topics might include federal investment in R&D (a historical perspective); Aerospace R&D; the IEEE-USA's 106th Legislative Agenda; medical privacy; intellectual property; age discrimination; engineers as union members; deregulation -- where the states stand on it, and the unintended consequences; understanding Section 1706; trends in employment benefits; the FAA and flight safety; pros and cons of privatizing social security; and tax status of continuing education benefits.

If you are interested in contributing to any of IEEE-USA's publications, contact Georgia C. Stelluto, IEEE-USA Publishing Manager at <mailto:g.stelluto@ieee.org>.

IEEE-USA PROPOSES AMENDMENTS TO VIRGINIA UCITA LAW

IEEE-USA attended a October 17th meeting of the Virginia Joint Commission on Technology and Science (JCOTS) to present five proposed amendments and supporting rationales to the Virginia Uniform Computer Information Transaction Act (UCITA). IEEE-USA Vice President, Technology Policy, J. Mark Pullen met with the JCOTS UCITA Advisory Committee at George Mason University in Fairfax, VA, to recommend amendments that IEEE-USA believes will address concerns it has about the law. IEEE-USA's participation came in response to a request issued by the Virginia General Assembly's JCOTS for input from citizens and businesses on UCITA legislation. The law, which goes into affect on July 1, 2001, governs commercial transactions involving software, computer databases, and other intangible goods. It has already been adopted by Virginia and Maryland and is pending in other states.

IEEE-USA believes that UCITA will encourage or enable software licensing practices that hurt the interests of consumers; discourage innovation; and put small, entrepreneurial high-tech businesses and software consultants at a competitive disadvantage. IEEE-USA's proposed amendments, endorsed by the Association for Computing Machinery: address concerns about accountability for the actual design of security vulnerabilities into software; support lawful reverse engineering of software to promote the advancement of scientific learning, technological improvement and enhancement of the public interest; restore the ability for a free press and an informed consumer base to publish objective and independent reviews of computer information products; and stipulate that significant known defects be disclosed to the consumer.

For more information:

- IEEE-USA's proposed amendments at <http://www.ieeeusa.org/grassroots/ucita/VirginiaAmendments.pdf>
- IEEE-USA's UCITA Resource Page at <http://www.ieeeusa.org/grassroots/ucita>
- Additional IEEE-USA-UCITA-related statements at <http://www.ieeeusa.org/forum/positions/ucita.html> and <http://www.ieeeusa.org/intro/buckley/buckleyjune00.html>.
- JCOTS 2000 UCITA Study Documents at <http://jcots.state.va.us/documents/00-01/00UCITA.htm>

SPECIAL IEEE MEMBER OFFER FOR MBA POWERPAK: GET THE YEAR 2000 PRICE LESS 10% FOR SPRING 2001 SESSIONS

An IEEE Education partner, Global Resources, a global management training and consulting firm, is currently offering IEEE members a 10% discount on the year 2000 rate for MBA PowerPak advance spring 2001 registrations (<http://www.MBAPowerPak.com>). Register for a spring 2001 MBA PowerPak Session before December 15, 2000, and the cost for the entire 8-day program is \$3,600. After December 15, the cost of the program will be \$4,500 although IEEE members will continue to receive a 10% discount. For more information on the curriculum, instructors, multiple locations/dates, pricing and related details, visit the MBA PowerPak website at www.MBAPowerPak.com, call the MBA PowerPak Registration Center toll-free anytime at 1 877 GRTRAIN (1-877-478-7246). For the full story, see <http://ieee.org/organizations/eab/newswire57.htm>

The IEEE Cincinnati Section Executive Committee

Member Names and Phone Numbers

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